

# USE OF FLOW THROUGH CAPACITOR IN THE RECOVERY AND PURIFICATION OF WATER FROM EXHAUST GASES OF INTERNAL COMBUSTION ENGINES

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## ABSTRACT OF THE DISCLOSURE

A process for recovering potable water from the exhaust gases of an internal combustion engine is disclosed. In this process the exhaust gases are cooled causing water to condense out, and the water formed is passed through particulate filters, activated carbon filters and ion exchange resin filters. In this process, the water is treated to reduce the levels of nitrates, sulfates, acidic and other organic components therein (for example, by passing it through a flow through capacitor) before the water is passed through the ion exchange resins. The apparatus for practicing this process is also disclosed.

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